

Table 22. Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2016

Subfield of study	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
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All fields	54,904	16,498	35,719	2,555	128	3,082	2,360	25,524	1,032	273	765
Life sciences	12,568	3,362	8,697	655	27	915	510	6,118	263	54	155
Agricultural sciences and natural resources	1,385	564	773	46	5	52	30	601	17	4	18
Agricultural economics	113	65	43	2	0	7	0	29	2	0	3
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other	303	138	153	6	0	14	3	122	2	1	5
Animal nutrition, poultry science	63	24	35	2	1	1	2	28	1	0	0
Animal sciences, other	83	23	55	6	0	3	2	40	0	0	4
Environmental science	193	48	131	13	1	7	9	96	3	1	1
Fishing and fisheries sciences and management	47	14	33	2	0	1	0	29	1	0	0
Food science, food technology-other	163	92	69	4	0	8	4	51	0	1	1
Forest biology, forest management, wood science, forestry sciences-other	87	36	51	2	1	1	2	41	1	0	3
Natural resource and environmental policy	68	22	45	0	0	4	4	32	4	1	0
Natural resources and conservation, wildlife and range management	86	19	64	1	2	1	1	56	2	0	1
Soil chemistry, soil sciences-other	61	26	35	2	0	2	1	30	0	0	0
Agricultural sciences, aggregated	118	57	59	6	0	3	2	47	1	0	0
Biological and biomedical sciences	8,884	2,311	6,225	494	11	708	280	4,376	209	41	106
Anatomy, developmental biology	183	44	135	15	0	22	2	88	4	2	2
Bacteriology, parasitology	38	11	27	5	0	1	3	16	1	1	0
Biochemistry (biological sciences)	834	290	518	39	1	50	26	377	15	3	7
Bioinformatics	194	86	90	2	0	18	5	65	0	0	0
Biomedical sciences	331	94	222	22	0	25	18	143	6	2	6
Biometrics and biostatistics	198	92	95	2	0	30	5	54	3	1	0
Biophysics (biological sciences)	165	52	104	2	1	10	4	85	2	0	0

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Botany, plant pathology, plant physiology	138	46	87	6	0	4	2	69	2	1	3
Cancer biology	439	135	293	27	1	47	20	185	8	2	3
Cell, cellular biology, and histology	261	81	153	14	0	24	4	104	5	0	2
Computational biology	133	49	77	1	0	9	4	58	1	0	4
Ecology	482	56	417	24	1	8	7	355	17	2	3
Endocrinology, human/animal pathology	60	12	43	3	0	4	3	31	2	0	0
Entomology	127	26	96	6	0	8	1	77	2	0	2
Environmental toxicology, toxicology	130	36	88	7	1	5	5	66	3	0	1
Epidemiology	343	57	273	17	1	35	26	180	7	0	7
Evolutionary biology	200	39	160	15	1	12	4	118	8	1	1
Genetics-human/animal, plant genetics	405	98	287	21	0	37	7	205	9	0	8
Immunology	402	78	316	29	2	45	18	203	10	2	7
Microbiology	467	83	367	36	0	34	13	263	16	1	4
Molecular biology, medicine	574	142	413	38	0	64	11	279	16	4	1
Neurosciences, neurobiology	997	190	775	69	0	96	24	540	32	6	8
Nutrition sciences	204	64	136	14	0	11	8	94	3	2	4
Pharmacology, human and animal	208	53	144	7	0	19	13	101	1	1	2
Physiology, human and animal	167	43	121	5	0	11	6	89	6	1	3
Structural biology	47	15	31	2	0	0	3	23	1	2	0
Virology	141	36	104	13	0	3	2	83	2	0	1
Wildlife biology	47	2	44	3	1	1	0	39	0	0	0
Zoology	38	6	32	2	0	1	0	23	3	2	1
Biological and biomedical sciences, general	773	250	478	42	1	60	27	305	21	5	17
Biotechnology, biology/biomedical sciences-other	158	45	99	6	0	14	9	58	3	0	9
Health sciences	2,299	487	1,699	115	11	155	200	1,141	37	9	31

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Environmental health, public health	455	78	364	23	1	35	76	211	10	3	5	
Health and behavior	119	16	95	8	0	5	15	61	4	0	2	
Health services research	121	30	89	5	0	15	9	55	1	0	4	
Health systems administration	41	11	26	2	0	4	7	10	1	0	2	
Kinesiology, exercise science	232	45	177	19	1	6	4	143	1	0	3	
Medical physics, radiological science	94	24	66	4	0	10	2	49	1	0	0	
Nursing science	481	45	415	28	3	21	51	296	8	5	3	
Pharmaceutical sciences	274	134	117	3	0	28	10	71	2	0	3	
Rehabilitation, therapeutic services	108	29	76	4	0	7	6	53	3	0	3	
Speech-language pathology and audiology	115	23	90	5	0	3	6	74	2	0	0	
Health sciences, aggregated	259	52	184	14	6	21	14	118	4	1	6	
Physical sciences and earth sciences	6,252	2,313	3,666	186	8	302	97	2,876	110	17	70	
Chemistry	2,704	1,000	1,579	87	2	150	64	1,190	52	6	28	
Analytical chemistry	392	149	242	6	0	20	11	194	7	1	3	
Chemical biology	120	42	76	11	0	10	1	47	6	0	1	
Inorganic chemistry	343	109	233	9	0	26	9	179	10	0	0	
Medicinal chemistry	72	21	45	0	0	5	5	34	0	0	1	
Organic chemistry	564	212	346	19	1	39	15	258	6	1	7	
Physical chemistry	379	145	230	9	0	15	7	193	6	0	0	
Polymer chemistry	148	78	70	2	0	9	1	55	2	0	1	
Theoretical chemistry	88	38	50	0	0	3	1	40	6	0	0	
Chemistry, general	417	144	171	19	1	13	8	108	3	4	15	
Chemistry, other	181	62	116	12	0	10	6	82	6	0	0	
Geosciences, atmospheric, and ocean sciences	1,227	390	802	42	4	49	10	661	20	2	14	
Atmospheric science and meteorology	245	81	159	14	1	17	6	117	1	0	3	
Atmospheric physics, meteorology	78	25	53	5	0	6	1	40	0	0	1	

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Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other	167	56	106	9	1	11	5	77	1	0	2
Geological sciences	617	205	386	17	3	18	4	324	11	1	8
Geochemistry, mineralogy	87	20	65	4	1	2	1	53	4	0	0
Geology	127	33	89	3	1	1	1	78	1	0	4
Geomorphology, geological sciences-general, geological sciences-other	223	70	141	7	1	7	2	114	5	1	4
Geophysics and seismology	138	72	59	3	0	8	0	48	0	0	0
Paleontology, stratigraphy	42	10	32	0	0	0	0	31	1	0	0
Ocean and marine sciences	365	104	257	11	0	14	0	220	8	1	3
Marine biology and biological oceanography	90	13	77	6	0	6	0	63	1	0	1
Oceanography, chemical and physical	79	31	47	2	0	2	0	38	2	1	2
Ocean/marine sciences, aggregated	196	60	133	3	0	6	0	119	5	0	0
Physics and astronomy	2,321	923	1,285	57	2	103	23	1,025	38	9	28
Astronomy and astrophysics	315	74	236	11	2	17	4	191	7	4	0
Astronomy	95	20	73	1	0	6	0	63	1	2	0
Astrophysics	211	51	157	10	2	11	4	122	6	2	0
Astronomy and astrophysics, other	9	3	6	0	0	0	0	6	0	0	0
Physics	2,006	849	1,049	46	0	86	19	834	31	5	28
Acoustics, optics/photronics	242	139	97	1	0	12	5	74	2	1	2
Applied physics	229	89	125	6	0	12	5	93	1	2	6
Atomic physics, polymer physics	180	86	93	5	0	12	0	69	4	0	3
Biophysics (physics)	138	52	82	2	0	3	2	72	2	0	1
Condensed matter, low-temperature physics	350	181	169	11	0	16	5	130	6	0	1
Elementary particle physics	231	85	145	7	0	15	2	112	5	2	2

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Nuclear physics	92	33	57	1	0	1	0	50	3	0	2
Plasma, high-temperature physics	79	16	62	2	0	4	0	53	2	0	1
Physics, general	356	131	150	7	0	7	0	123	4	0	9
Physics, other	109	37	69	4	0	4	0	58	2	0	1
Mathematics and computer sciences	3,957	2,054	1,730	96	3	216	78	1,208	65	16	48
Computer and information sciences	2,085	1,204	783	33	0	119	42	535	25	9	20
Computer science	1,651	979	597	22	0	96	22	412	20	8	17
Information science, systems	175	65	89	7	0	12	13	55	1	0	1
Computer and information sciences, general	161	115	45	1	0	7	3	33	1	0	0
Computer and information sciences, other	98	45	52	3	0	4	4	35	3	1	2
Mathematics and statistics	1,872	850	947	63	3	97	36	673	40	7	28
Algebra	83	23	60	8	0	3	3	39	3	1	3
Analysis and functional analysis	97	44	41	3	0	2	1	34	1	0	0
Applied mathematics, computing theory	488	233	243	21	2	25	17	166	6	1	5
Geometry, geometric analysis	52	22	30	4	0	0	2	24	0	0	0
Logic, topology/foundations	55	19	35	1	0	3	0	29	2	0	0
Number theory	48	22	26	1	0	5	1	17	2	0	0
Operations research, mathematics/statistics-general, mathematics/statistics-other	784	337	406	19	1	41	8	299	20	5	13
Statistics (mathematics)	265	150	106	6	0	18	4	65	6	0	7
Psychology and social sciences	9,078	1,756	6,830	583	30	428	495	4,846	218	73	157
Psychology	3,946	306	3,371	306	11	188	232	2,406	110	31	87
Behavioral analysis	65	12	53	2	0	4	3	41	2	0	1
Clinical psychology	1,224	40	1,114	112	2	61	62	811	29	11	26
Cognitive neuroscience	162	30	129	15	0	12	3	91	4	0	4
Cognitive psychology and psycholinguistics	165	31	131	11	0	12	3	100	4	0	1

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Community psychology	34	0	28	3	0	2	6	12	2	2	1
Counseling	316	22	272	24	4	11	33	178	11	0	11
Developmental and child psychology	236	26	207	19	1	17	13	147	6	2	2
Educational psychology (psychology)	108	8	91	7	0	7	9	63	5	0	0
Experimental psychology	144	12	129	6	0	6	5	108	3	0	1
Family psychology, human development and family studies	204	28	166	14	0	6	23	109	4	2	8
Health, medical psychology	53	4	48	4	1	0	6	33	2	0	2
Industrial and organizational psychology	217	16	192	27	1	3	10	134	7	4	6
Marriage and family therapy, counseling	77	4	61	7	0	3	11	34	4	1	1
Neuropsychology, physiological psychology	69	8	57	2	0	6	0	43	4	1	1
School psychology (psychology)	129	3	119	5	0	8	6	90	3	2	5
Social psychology	219	16	199	8	1	11	7	161	9	1	1
Psychology, general	302	22	190	25	0	9	18	117	5	3	13
Psychology, aggregated	222	24	185	15	1	10	14	134	6	2	3
Social sciences	5,132	1,450	3,459	277	19	240	263	2,440	108	42	70
Anthropology	460	76	360	38	5	15	17	265	13	6	1
Anthropology, cultural	290	57	232	24	3	14	13	166	8	4	0
Anthropology, physical and biological	80	2	78	8	0	0	0	64	4	2	0
Anthropology, general	90	17	50	6	2	1	4	35	1	0	1
Economics	1,238	658	521	31	1	61	18	378	7	6	19
Econometrics, economics	1,179	638	482	30	0	60	16	345	7	5	19
Natural resources and environmental economics (social sciences)	59	20	39	1	1	1	2	33	0	1	0
Political science and government	745	128	579	43	3	29	27	441	21	5	10

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Sociology	615	89	508	33	1	32	43	365	21	7	6
Other social sciences	2,074	499	1,491	132	9	103	158	991	46	18	34
American, U.S. studies	111	7	97	9	2	6	9	66	2	3	0
Applied linguistics	81	34	45	6	0	2	0	31	4	0	2
Area, ethnic, cultural, and gender studies	261	36	220	38	2	21	44	98	10	5	2
Criminal justice and corrections	93	15	66	4	0	2	8	49	1	1	1
Criminology	104	12	88	6	0	1	4	75	1	0	1
Demography, gerontology, statistics, urban affairs, social sciences- general, social sciences-other	382	113	255	28	4	27	40	137	7	3	9
Geography	246	65	172	7	0	6	6	149	1	0	3
Health policy analysis	61	12	48	4	0	7	4	32	1	0	0
International relations, international affairs	137	40	91	6	0	2	6	69	5	0	3
Linguistics	237	75	149	11	1	8	2	111	4	3	9
Public policy analysis	230	44	179	7	0	13	24	124	6	1	4
Urban, city, community and regional planning	131	46	81	6	0	8	11	50	4	2	0
Engineering	9,469	4,848	4,181	271	8	642	173	2,810	120	35	122
Aerospace, aeronautical, and astronautical engineering	369	119	233	17	2	21	6	165	10	2	10
Bioengineering and biomedical engineering	1,089	300	746	50	0	162	24	467	26	8	9
Chemical engineering	923	403	470	32	0	75	11	326	11	3	12
Civil engineering	565	308	219	16	1	24	7	158	6	1	6
Electrical, electronics, and communications engineering	1,827	1,164	547	28	1	108	33	331	16	2	28
Industrial and manufacturing engineering	256	164	82	9	0	13	7	47	2	3	1
Materials science engineering	985	496	456	36	0	64	18	307	17	1	13
Mechanical engineering	1,299	652	585	32	0	79	21	416	8	5	24

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Other engineering	2,156	1,242	843	51	4	96	46	593	24	10	19
Computer engineering	402	274	119	7	0	28	5	71	5	1	2
Environmental, environmental health engineering	216	91	118	13	0	11	6	83	4	0	1
Nuclear engineering	131	46	83	4	0	4	1	66	1	1	6
Robotics	120	52	65	7	0	6	2	47	1	2	0
Structural engineering	116	80	35	1	0	5	1	28	0	0	0
Systems engineering	113	43	67	3	0	7	11	38	3	2	3
Other engineering, aggregated	1,058	656	356	16	4	35	20	260	10	4	7
Education	5,153	563	4,303	322	30	210	640	2,889	101	33	78
Education administration	829	32	730	44	6	17	171	456	11	9	16
Educational administration and supervision	148	3	138	8	1	7	35	79	2	1	5
Educational and human resource studies, development	63	10	52	4	0	3	10	35	0	0	0
Educational leadership	559	18	482	28	5	6	99	320	7	6	11
Urban education and leadership	59	1	58	4	0	1	27	22	2	2	0
Education research	2,386	280	1,981	157	13	106	274	1,328	54	15	34
Counseling education, counseling and guidance	276	19	242	17	2	7	47	151	10	2	6
Curriculum and instruction	380	34	299	24	3	12	36	202	10	3	9
Educational assessment, testing, measurement	66	22	44	3	0	5	7	24	5	0	0
Educational policy analysis	173	23	143	19	1	9	24	86	1	2	1
Educational psychology (education)	220	34	166	13	2	16	15	115	2	1	2
Educational statistics, research methods	76	22	52	6	0	5	3	35	2	0	1
Educational/instructional technology, media design	250	59	183	11	0	9	26	129	4	1	3
Higher education evaluation and research	451	21	420	36	2	16	70	281	9	4	2
International education	57	13	40	4	0	1	5	26	1	0	3

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School psychology (education)	117	5	110	10	0	8	9	81	1	1	0
Social and philosophical foundations of education	63	7	55	2	0	5	14	29	3	0	2
Special education	257	21	227	12	3	13	18	169	6	1	5
Teacher education	181	13	159	5	2	5	26	111	4	0	6
Teaching fields	1,167	181	949	71	5	49	95	698	15	8	8
English as a second or foreign language	70	42	26	1	0	2	3	20	0	0	0
Health education	70	7	63	3	2	5	17	36	0	0	0
Literacy and reading education	137	8	122	10	1	5	14	89	1	0	2
Mathematics education	182	23	159	9	0	6	17	121	2	2	2
Music education	87	5	81	4	0	7	4	64	1	1	0
Physical education and coaching	38	11	26	1	0	0	2	23	0	0	0
Science education	133	11	116	10	0	8	10	84	2	1	1
Teaching fields, aggregated	450	74	356	33	2	16	28	261	9	4	3
Other education	590	57	484	45	4	33	74	296	17	1	14
Education, general	368	38	292	29	2	23	42	171	10	1	14
Other education, aggregated	222	19	192	16	2	10	32	125	7	0	0
Humanities and arts	5,484	712	4,447	318	19	180	170	3,527	112	28	93
Foreign languages and literature	599	164	399	92	2	13	3	273	4	3	9
French, Italian	141	35	97	4	0	1	0	90	1	0	1
Germanic language and literature	67	17	46	1	0	1	0	42	1	0	1
Latin American languages and literature	96	33	61	37	1	0	0	22	0	0	1
Spanish language and literature	127	32	84	33	0	1	1	46	0	1	2
Other aggregated languages	168	47	111	17	1	10	2	73	2	2	4
History	1,147	142	949	76	3	34	51	735	27	8	15
American history, United States and Canada	391	11	377	23	2	10	26	299	12	3	2
Asian history	73	33	37	3	0	13	1	19	1	0	0
European history	207	24	179	14	0	0	0	155	8	1	1

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History, science and technology and society	66	12	52	3	0	4	1	43	0	0	1
Latin American history	77	17	60	21	0	0	3	36	0	0	0
Middle, Near East history	62	19	41	2	0	2	1	34	0	1	1
History, general	155	15	102	5	1	4	8	70	3	2	9
History, aggregated	116	11	101	5	0	1	11	79	3	1	1
Letters	1,533	126	1,314	55	4	50	44	1,099	27	6	29
American literature, United States and Canada	342	18	321	13	1	9	24	267	6	1	0
Classics	109	12	88	3	0	1	0	80	1	1	2
Comparative literature	173	48	113	8	0	6	5	89	2	2	1
English language	127	3	73	3	0	3	2	45	1	0	19
English literature, British and Commonwealth	414	31	381	13	1	23	5	330	7	0	2
Rhetoric and composition	212	8	196	7	1	3	4	172	5	0	4
Speech and rhetorical studies	39	2	35	3	0	0	1	28	2	1	0
Letters, aggregated	117	4	107	5	1	5	3	88	3	1	1
Other humanities and arts	2,205	280	1,785	95	10	83	72	1,420	54	11	40
Archaeology (humanities)	166	17	147	6	2	4	1	128	4	0	2
Art history, criticism, and conservation	278	36	225	16	0	10	2	181	8	3	5
Drama, theater arts	87	8	75	5	1	0	6	58	1	0	4
Film, cinema, video studies	73	12	59	5	0	5	2	45	2	0	0
Music	60	15	38	2	0	3	1	29	0	3	0
Musicology and ethnomusicology	127	9	111	5	0	8	7	85	6	0	0
Music performance	91	20	68	4	1	9	3	48	3	0	0
Music theory and composition	92	17	75	4	0	2	1	62	3	1	2
Philosophy, ethics	493	54	408	22	1	17	16	330	10	1	11
Religion/religious studies, Jewish/Judaic studies	281	21	229	7	0	9	10	185	6	0	12
Theology, religious education	212	28	159	6	3	6	8	129	3	1	3

Table 22. Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2016

Subfield of study	All doctorate recipients ^a	Temporary visa holders	U.S. citizens and permanent residents								
			Total	Hispanic or Latino	Not Hispanic or Latino						Ethnicity not reported
					American Indian or Alaska Native	Asian	Black or African American	White	More than one race	Other race or race not reported	
Other humanities, aggregated	245	43	191	13	2	10	15	140	8	2	1
Other ^b	2,943	890	1,865	124	3	189	197	1,250	43	17	42
Business management and administration	1,510	553	845	56	3	122	81	538	19	11	15
Accounting	177	41	128	5	0	22	6	91	3	0	1
Business administration and management	263	86	147	17	1	14	10	96	5	1	3
Finance	251	129	113	5	0	23	8	72	1	3	1
Human resources development	197	30	151	9	1	8	24	103	2	3	1
Management information systems, business statistics	107	48	53	2	0	10	8	33	0	0	0
Marketing management and research	140	55	81	4	1	21	6	45	2	2	0
Other aggregated business fields	375	164	172	14	0	24	19	98	6	2	9
Communication	673	160	472	34	0	26	30	359	12	2	9
Communication research	183	44	138	9	0	8	6	114	0	0	1
Mass communication, media studies	211	70	126	10	0	7	9	96	2	0	2
Communication, general	143	21	102	7	0	7	5	72	5	0	6
Communication, aggregated	136	25	106	8	0	4	10	77	5	2	0
Non-S&E fields not elsewhere classified	760	177	548	34	0	41	86	353	12	4	18
Architecture and environmental design	99	42	52	2	0	2	2	38	3	0	5
Family, consumer sciences and human sciences	39	14	25	2	0	2	4	17	0	0	0
Parks, sports, recreation, leisure and fitness	83	16	65	3	0	0	9	51	2	0	0
Public administration	143	38	103	5	0	5	26	62	2	0	3
Social work	294	32	246	18	0	25	42	146	4	4	7
Fields not elsewhere classified, aggregated	102	35	57	4	0	7	3	39	1	0	3

S&E = science and engineering.

Table 22. Doctorate recipients, by subfield of study, citizenship status, ethnicity, and race: 2016

^a Includes 2,687 respondents who did not report citizenship.

^b Non-science and engineering fields.

NOTE: See table A-5 in the technical notes for a listing of aggregated fields and their constituent fine fields.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2016.